

## IN THE CLAIMS

*This listing of claims will replace all prior versions and listings of claims in the application.*

### Listing of Claims:

1. (Original) A luneberg lens comprising:  
a lens which is configured by combining lens parts of spherical core and spherical shell-like resin foams, wherein  
the lens is sealed by a synthetic resin film which is formed along a surface of the lens and in which a thickness is 100µm or less and of which own relative dielectric constant is higher than a relative dielectric constant of the outermost layer of the lens.
2. (Original) The luneberg lens as set forth in claim 1, wherein  
the synthetic resin film is a shrink film.
3. (Currently Amended) An antenna apparatus comprising:  
a hemispherical luneberg lens,  
a reflecting plate which is attached to a two-divided cross section of a sphere of this lens,  
a primary feed which is placed at a focal point portion of the lens, and  
a holding unit of this primary feed, wherein  
the hemispherical luneberg lens is configured by the luneberg lens set forth in claim 1 or 2.
4. (Currently Amended) An antenna apparatus comprising:  
a luneberg lens of which surface is sealed by a cover made by synthetic resin,  
a primary feed which is placed at a focal point portion of the lens, and  
a holding unit of the primary feed, wherein  
the hemispherical luneberg lens is configured by the luneberg lens as set forth ~~forth~~ forth in claim 1 or 2, and  
the cover has a thickness of 2mm or less.